

# Modular cavity experimental plans

- 1 Test 10.44 cm cavity with Cu endplates. Establish baseline  $E_{\text{acc}}$ -vs.- $B$  curve.
  - TiN coating; no EP.
  - TiN coating; Bright Dip/EP treatment.
- 2 Test with Be endplates
  - TiN coating.
  - Surface roughness should match Cu plates.
  - **Dark current measurements possible here.**
- 3 Repeat Cu/Be comparison with 15 cm cavity.
- 4 Pulsed heating experiments at SLAC suggest influence of cavity material on BD probability. Build endplates from:
  - Mo
  - Cu-Zr
  - Glidcop